## **Complete Listing of the Claims**

- 1. (previously presented) Crystalline N-{2-[4-((R)-2-hydroxy-2-phenylethylamino)phenyl]ethyl}-(R)-2-hydroxy-2-(3-formamido-4-hydroxyphenyl)ethylamine dihydrochloride.
- 2. (previously presented) The compound of Claim 1 which is characterized by an x-ray powder diffraction pattern having two or more diffraction peaks at 2θ values selected from the group consisting of 15.61±0.2, 16.32±0.2, 19.50±0.2, 24.25±0.2, 24.92±0.2, 25.45±0.2, 28.67±0.2, and 31.16±0.2.
- 3. (previously presented) The compound of Claim 1 wherein the x-ray powder diffraction pattern comprises diffraction peaks at  $2\theta$  values of  $24.25\pm0.2$ ,  $24.92\pm0.2$ , and  $25.45\pm0.2$ .
- 4. (previously presented) The compound of Claim 1 which is characterized by an x-ray powder diffraction pattern in which the peak positions are substantially in accordance with the peak positions of the pattern shown in FIG. 1.
- 5. (previously presented) The compound of Claim 1 having an infrared absorption spectrum with significant absorption bands at 696±1, 752±1, 787±1, 827±1, 873±1, 970±1, 986±1, 1020±1, 1055±1, 1066±1, 1101±1, 1197±1, 1293±1, 1371±1, 1440±1, 1542±1, 1597±1, 1658±1, 2952±1, 3372±1, and 3555±1 cm<sup>-1</sup>.
- 6. (previously presented) The compound of Claim 1 which is characterized by a differential scanning calorimetry trace which shows an onset of endothermic heat flow at about 200°C.
- 7. (previously presented) A hydrochloride salt of N-{2-[4-((R)-2-hydroxy-2-phenylethylamino)phenyl]ethyl}-(R)-2-hydroxy-2-(3-formamido-4-hydroxyphenyl)ethylamine having an x-ray powder diffraction pattern having two or

more diffraction peaks at 20 values selected from the group consisting of  $15.61\pm0.2$ ,  $16.32\pm0.2$ ,  $19.50\pm0.2$ ,  $24.25\pm0.2$ ,  $24.92\pm0.2$ ,  $25.45\pm0.2$ ,  $28.67\pm0.2$ , and  $31.16\pm0.2$ .

- 8. (previously presented) A pharmaceutical composition comprising a therapeutically effective amount of the compound of Claim 1 and a pharmaceutically acceptable carrier.
- 9. (previously presented) The pharmaceutical composition of Claim 8, wherein the composition comprises particles of crystalline N-{2-[4-((R)-2-hydroxy-2-phenylethylamino)phenyl]ethyl}-(R)-2-hydroxy-2-(3-formamido-4-hydroxyphenyl)ethylamine dihydrochloride having a size ranging from about 1  $\mu$ m to about 10  $\mu$ m.
- 10. (previously presented) The pharmaceutical composition of Claim 8, wherein the composition further comprises a therapeutically effective amount of one or more other therapeutic agents.
- 11. (previously presented) The pharmaceutical composition of Claim 8, wherein the composition is formulated for administration by inhalation.
- 12. (previously presented) A combination comprising the compound of Claim 1 and one or more other therapeutic agents.
- 13. (previously presented) The combination of Claim 12 wherein the other therapeutic agent is a corticosteroid, an antichlolinergic agent, or a PDE4 inhibitor.
- 14. (previously presented) A combination comprising a compound of Claim 1 and  $6\alpha,9\alpha$ -difluoro- $17\alpha$ -[(2-furanylcarbonyl)oxy]- $11\beta$ -hydroxy- $16\alpha$ -methyl-3-oxo-androsta-1,4-diene- $17\beta$ -carbothioic acid S-fluoromethyl ester or  $6\alpha,9\alpha$ -difluoro- $11\beta$ -hydroxy- $16\alpha$ -methyl-3-oxo- $17\alpha$ -propionyloxy- androsta-1,4-diene- $17\beta$ -carbothioic acid S-(2-oxo-tetrahydro-furan-3S-yl) ester.

- 15. (previously presented) A process for preparing crystalline N-{2-[4-((R)-2-hydroxy-2-phenylethylamino)phenyl]ethyl}-(R)-2-hydroxy-2-(3-formamido-4-hydroxyphenyl)ethylamine dihydrochloride, the process comprising the steps of:
- (a) dissolving N-{2-[4-((R)-2-hydroxy-2-phenylethylamino)phenyl]ethyl}-(R)-2-hydroxy-2-(3-formamido-4-hydroxyphenyl)ethylamine in a first polar solvent to form a first solution; and
- (b) adding hydrochloric acid to form a second solution from which a crystalline product is formed.
- 16. (previously presented) The process of Claim 15 wherein the second solution comprises isopropanol and water in a ratio of isopropanol:water of from about 4:1 to about 10:1, volume to volume.
  - 17. (previously presented) The process of Claim 15 further comprising:
  - (a) dissolving the product of Claim 15 in a second polar solvent; and
- (b) adding between about 0.5 and about 1.5 equivalents of hydrochloric acid per mole of free base and a third polar solvent to form a third solution from which a crystalline product is formed.
- 18. (previously presented) The crystalline hydrochloride salt produced by the process of Claim 15.
- 19. (previously presented) The crystalline hydrochloride salt of Claim 18 wherein the salt has an x-ray powder diffraction pattern having two or more diffraction peaks at 20 values selected from the group consisting of  $15.61\pm0.2$ ,  $16.32\pm0.2$ ,  $19.50\pm0.2$ ,  $24.25\pm0.2$ ,  $24.92\pm0.2$ ,  $25.45\pm0.2$ ,  $28.67\pm0.2$ , and  $31.16\pm0.2$ .
  - 20. (previously presented) A pharmaceutical composition comprising:
- (a) N-{2-[4-((R)-2-hydroxy-2-phenylethylamino)phenyl]ethyl}-(R)-2-hydroxy-2-(3-formamido-4-hydroxyphenyl)ethylamine dihydrochloride;
  - (b) a buffering agent; and
  - (c) water;

wherein the buffering agent is present in an amount sufficient to provide the composition with a pH in the range of between about 4 and about 6.

- 21. (previously presented) The pharmaceutical composition of Claim 20 wherein the buffering agent is present in an amount sufficient to provide the composition with a pH in the range of between about 5 and about 5.5.
- 22. (previously presented) The pharmaceutical composition of Claim 20 where the buffering agent comprises a citrate species.
- 23. (previously presented) The pharmaceutical composition of Claim 20 wherein the composition is isotonic.
- 24. (previously presented) The pharmaceutical composition of Claim 23 wherein the composition further comprises a sufficient amount of sodium chloride to render the composition isotonic.
- 25. (previously presented) The pharmaceutical composition of Claim 20, wherein the composition further comprises a surfactant.
- 26. (previously presented) The pharmaceutical composition of Claim 20, wherein the composition further comprises a therapeutically effective amount of one or more other therapeutic agents.
  - 27. (previously presented) A kit comprising:
  - (a) a nebulizer device; and
- (b) a container whose contents comprise the pharmaceutical composition of Claim 20.
- 28. (previously presented) A process for preparing a pharmaceutical composition for use in a nebulizer, the process comprising the steps of:

- (a) dissolving crystalline N-{2-[4-((R)-2-hydroxy-2-phenylethylamino)phenyl]ethyl}-(R)-2-hydroxy-2-(3-formamido-4-hydroxyphenyl)ethylamine dihydrochloride in an acidic aqueous solution comprising a buffering agent; and
- (b) adding a base until the composition has a pH of between about 4 and about 6.
- 29. (previously presented) The process of Claim 28 wherein the acidic aqueous solution is an isotonic solution.
- 30. (previously presented) The process of Claim 28 wherein step (b) comprises adding NaOH until the composition has a pH in the range of between about 5 and about 5.5.
- 31. (previously presented) A method of treating a disease or condition in a mammal associated with  $\beta_2$  adrenergic receptor activity, the method comprising administering to the mammal, a therapeutically effective amount of a pharmaceutical composition of Claim 8 or Claim 20.
- 32. (previously presented) The method of Claim 31 wherein the disease or condition is a pulmonary disease.
- 33. (previously presented) The method of Claim 32 wherein the pulmonary disease is asthma or chronic obstructive pulmonary disease.
- 34. (previously presented) The method of Claim 31 wherein the disease or condition is selected from the group consisting of pre-term labor, neurological disorders, cardiac disorders, and inflammation.
- 35. (previously presented) The method of Claim 31 wherein the method further comprises administering a therapeutically effective amount of one or more other therapeutic agents.

- 36. (previously presented) The method of Claim 31 wherein the other therapeutic agent is a corticosteroid, an anticholinergic agent, or a PDE4 inhibitor.
- 37. (previously presented) The method of Claim 35 wherein the other therapeutic agent is  $6\alpha$ ,  $9\alpha$ -difluoro- $17\alpha$ -[(2-furanylcarbonyl)oxy]- $11\beta$ -hydroxy- $16\alpha$ -methyl-3-oxo-androsta-1,4-diene- $17\beta$ -carbothioic acid S-fluoromethyl ester or  $6\alpha$ ,  $9\alpha$ -difluoro- $11\beta$ -hydroxy- $16\alpha$ -methyl-3-oxo- $17\alpha$ -propionyloxy- androsta-1,4-diene- $17\beta$ -carbothioic acid S-(2-oxo-tetrahydro-furan-3S-yl) ester.
- 38. (previously presented) A process for preparing 2-[4-((R)-2-hydroxy-2-phenylethylamino)phenyl]ethylamine (2):

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the process comprising the steps of:

- (a) reacting 2-(4-aminophenyl)ethylamine or a salt thereof with a sufficient amount of base to substantially deprotonate the 4-amino group; and
- (b) reacting the product of step (a) with (R)-styrene oxide to provide compound 2.
- 39. (previously presented) The process of Claim 38, wherein steps (a) and (b) are conducted in a solvent system comprising a polar aprotic solvent.
- 40. (previously presented) The process of Claim 38, wherein the process further comprises forming a crystalline salt of compound <u>2</u>.